

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 07165455
PUBLICATION DATE : 27-06-95

APPLICATION DATE : 12-09-94
APPLICATION NUMBER : 06217015

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INT.CL. : C04B 28/26 C04B 7/26 C04B 7/32 C04B 12/04 //(C04B 28/26 , C04B 22:06 ,
C04B 18:08 , C04B 22:08 , C04B 14:10) C04B111:28

TITLE : CURABLE INORGANIC COMPOSITION

ABSTRACT : PURPOSE: To obtain a curable inorganic composition having high strength and excellent durability such as heat-resistance and weather resistance in a short time by compounding prescribed reactive inorganic powder with an alkali metal silicate and water.

CONSTITUTION: This curable inorganic composition is produced by compounding (A) 100 pts.wt. of reactive inorganic powder obtained by compounding (a) 20-99.5wt.% of one or more kinds of inorganic powder selected from fly ash containing ≥ 80 wt.% of powder having particle diameter of $\leq 20\mu\text{m}$, fly ash baked at $400-1000^\circ\text{C}$ and containing ≥ 80 wt.% of powder having particle diameter of $\leq 20\mu\text{m}$ and inorganic powder produced by applying mechanical energy of $0.1-30\text{KWh/kg}$ to clay with (b) 0.5-80wt.% of one or more kinds of alumina powder selected from alumina cement powder, γ -alumina powder and alumina powder produced by flame-spraying with (B) 1-300 pts.wt. of an alkali metal silicate and (C) 10-1,000 pts.wt. of water.

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